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| APPLICATION NO.              | FILING DATE                      | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.   | CONFIRMATION NO. |
|------------------------------|----------------------------------|----------------------|-----------------------|------------------|
| 10/789,223                   | 02/27/2004                       | Kaoru Usui           | MM4704                | 7958             |
| 1109 75                      | 90 11/03/2005                    |                      | EXAMINER              |                  |
| ANDERSON, KILL & OLICK, P.C. |                                  |                      | SMITH, TYRONE W       |                  |
|                              | OF THE AMERICAS<br>NY 10020-1182 |                      | ART UNIT PAPER NUMBER |                  |
| TILW TORK,                   | 111 10020 1102                   |                      | 2837                  |                  |

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |   |  | A    |  |  |  |
|--|---|--|------|--|--|--|
|  | Application No.   | Applicant(s)   | U/   |  |  |  |
|  | 10/789,223  | USUI ET AL.  |      |  |  |  |
| Office Action Summary  | Examiner  | Art Unit   |      |  |  |  |
|  | Tyrone W. Smith   | 2837   |      |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply   |   |  |      |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | J.  lely filed  the mailing date of this communica  O (35 U.S.C. § 133). | ,    |  |  |  |
| Status   |   |  |      |  |  |  |
| Responsive to communication(s) filed on 13 Ju     This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for allowant closed in accordance with the practice under E  | action is non-final.<br>ace except for formal matters, pro  |  | s is |  |  |  |
| Disposition of Claims  |   |  |      |  |  |  |
| 4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or  |   |  |      |  |  |  |
| Application Papers   |   |  | ·    |  |  |  |
| 9)☐ The specification is objected to by the Examiner   |   |  |      |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |   |  |      |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |  |      |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |   |  |      |  |  |  |
| Priority under 35 U.S.C. § 119   |   |  | ٠    |  |  |  |
| a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of   | have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).  | on No<br>d in this National Stage  |      |  |  |  |
| Attachment(s)  |   |  |      |  |  |  |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date   | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:   |  |      |  |  |  |

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-20 rejected under 35 U.S.C. 102(b) as being anticipated by Kanayama (4477751).

Regarding Claim 1 and 20. Kanayama discloses a motor brake device, which includes electric motor (Figure 4 item M) that is connected between the between the first (Figure 4 items 10, 30) and second (Figure 4 items 20, 40) transistor, which discloses turning OFF the first transistor and turning ON the second transistor in accordance with a brake operation instruction signal from the control circuit (Figure 4 items 32) and forcing the first transistor to be turned OFF in accordance with the brake operation instruction signal. Further, Kanayama discloses control circuits (Figure 4 items 22, 24, 28 and 30; note that the gates can be individual control units or paired to create to separate control units) in which one of the control circuit forces the first transistor to be turned OFF in accordance with the operation instruction signal independently from the other control circuit (column 4 lines 22-61).

Regarding Claim 2, 3, 6,18 and 19. Kanayama discloses the first transistor (NPN) controls supplying of a drive current to the motor, and the second transistor (NPN) controls drawing of the drive current from the motor (Figure 4).

Regarding Claims 4, 5, 7, 8 and 20. Kanayama discloses a switching element (Figure 1 items 22, 24, 28 and 30; note that the gates can be individual control units or paired to create to

separate control units) provided between the connection point between the first (Figure 4 items 10, 30) and second (Figure 4 items 20, 40) transistor and the (Figure 4 item 32) that turns ON the switching element in accordance with the brake operation instruction signal.

Regarding Claim 9. Kanayama discloses an H-bridge electric motor (Figure 4 item M), which discloses turning OFF the first transistor (Figure 4 items 10, 30) and turning ON the second transistor (Figure 4 items 20, 40) in accordance with a brake operation instruction signal and forcing the first transistor to be turned OFF in accordance with the brake operation instruction signal (column 4 lines 22-61).

Regarding Claim 10. Kanayama discloses the first transistor (NPN) controls supplying of a drive current to the motor, and the second transistor (NPN) controls drawing of the drive current from the motor (Figure 4).

Regarding Claims 11 and 14. Kanayama discloses first (Figure 4 items 10, 30) and second (Figure 4 items 20, 40) transistor are each formed by an NPN transistor and the step of forcing the first transistor to be turned OFF is performed by lowering a base potential of the first transistor (column 3 lines 26-68 and column 4 lines 1-61).

Regarding Claims 12, 13, 15 and 16. Kanayama discloses the step of forcing the first transistor (Figure 4 items 10, 30) to be turned OFF is performed by turning ON a switching element/driver (Figure 1 items 22, 24, 28 and 30; note that the gates can be individual control units or paired to create to separate control units) that is provided between the connection point between the first and second transistors and the motor and a base of the first transistor in accordance with the brake operation instruction signal (column 3 lines 26-68 and column 4 lines 1-61).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Pertinent arts of record related to the current invention are disclosed in the PTO-892.

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot in 4.

view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner 5.

should be directed to Tyrone W. Smith whose telephone number is 571-272-2075. The

examiner can normally be reached on weekdays from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Martin, can be reached on 571-272-2800 ext. 37. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tyrone Smith

**Patent Examiner** 

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